

COMPLETE LISTING OF CLAIMS

Please cancel claims 1-34 and please add new claims 35-43 as follows:

Claims 1-34 (canceled)

Claim 35 (new): A method for recovery of a concentrated protein or bio-molecule of interest from the interstitial fluid of a plant tissue comprising the steps of:

- (a) submerging plant tissue in buffer solution;
- (b) subjecting the plant tissue and buffer solution to a substantially vacuum environment;
- (c) separating the plant tissue from the buffer solution;
- (d) centrifuging the tissue to remove interstitial fluid; and
- (e) concentrating the protein or bio-molecule of interest from the interstitial fluid;

wherein said plant tissue are either one of the following: harvested whole plant leaves, and plant leaves dissected substantially along the midrib thereof.

Claim 36 (new): A method of claim 35, wherein said whole plant leaves are harvested from any one of the following plants: *Nicotiana benthamiana* and *Nicotiana tabacum*.

Claim 37(new): A method of claim 35, wherein said step of subjecting the plant tissue and buffer solution to a substantially vacuum environment is repeated at least.

Claim 38(new): The method of claim 35, wherein said step of subjecting the plant tissue and buffer solution to a substantially vacuum environment comprises subjecting the plant tissue and buffer solution to a substantially vacuum environment and rapidly releasing the vacuum.

Claim 39(new): The method of Claim 35, wherein the protein of interest is produced in the plant by a recombinant plant viral vector.

Claim 40(new): The method of Claim 35, wherein the host plant is a transgenic plant that produces the protein or bio-molecule.

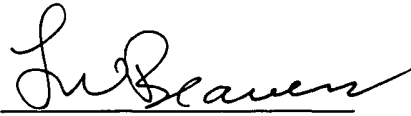
Claim 41(new): The method of Claim 35, wherein the protein of interest is produced through transfection of the host plant.

Claim 42(new): The method of Claim 35, wherein the protein of interest is selected from any one of the following: a human lysosomal enzyme; an industrial enzyme; a cytokine; an antibody or antibody fragment; α -galactosidase or an isozyme of α -

galactosidase; glucocerebrosidase or an isozyme of glucocerebrosidase; a signaling peptide to direct the protein to a specific compartment within a cell.

Claim 43(new): A method of claim 35, further comprising the step of harvesting plant tissue before said submerging step.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "L. Beavers", written over a horizontal line.

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